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Certificate No.: T- 5548

CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 01/01/2018

Lab ID	:	**CP-2017-12-28-04**
Customer	:	Assistant Executive Engineer, Project Sub division, BBMP, Bangalore.
Address	:	Project Sub division, BBMP, Bangalore.
Project Name	:	Improvements to CC roads and RCC drains in Mallasandra colony in Mallasandra Ward no.13
Agency	:	Technical Manager, KRIDL, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010.
Customer's Reference	:	BBMP/EE/PD/WO/05/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-12-17
Sample ID No	:	2017-12-28-04/07
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	25/12/2017	01/01/2018	150.57 X 150.28 X 150.84	22628	8.16	386.9	17.1	17.2
2	Drain Concrete	M20	25/12/2017	01/01/2018	150.78 X 150.80 X 150.73	22738	8.18	400.2	17.6	
3	Drain Concrete	M20	25/12/2017	01/01/2018	151.36 X 150.47 X 151.72	22775	8.19	384.9	16.9	

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Asst. Executive Engineer
Project Sub Division
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CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2017-12-28-04 **Date: 22/01/2018**
Customer	:	Assistant Executive Engineer, Project Sub division, BBMP, Bangalore.
Address	:	Project Sub division, BBMP, Bangalore.
Project Name	:	Improvements to CC roads and RCC drains in Mallasandra colony in Mallasandra Ward no.13
Agency	:	Technical Manager, KRIDL, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010.
Customer's Reference	:	BBMP/EE/PD/WO/05/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-12-17
Sample ID No	:	2017-12-28-04/08
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/01/2018

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	25/12/2017	22/01/2018	151.22 X 150.76 X 150.55	22798	8.176	506.1	22.2	22.9
2	Drain Concrete	M20	25/12/2017	22/01/2018	150.81 X 149.83 X 151.09	22567	8.098	528.1	23.4	
3	Drain Concrete	M20	25/12/2017	22/01/2018	151.37 X 151.99 X 150.38	22568	8.156	521.3	23.1	

Note:
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CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 03/01/2018

Lab ID	:	**CP-2017-12-30-04**
Customer	:	Assistant Executive Engineer, Project Sub division, BBMP, Bangalore.
Address	:	Project Sub division, BBMP, Bangalore.
Project Name	:	Improvements to CC roads and RCC drains in Mallasandra colony in Mallasandra Ward no.13
Agency	:	Technical Manager, KRIDL, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010.
Customer's Reference	:	BBMP/EE/PD/WO/05/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-12-17
Sample ID No	:	2017-12-30-04/01
Customer ID	:	M30 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M30 Concrete	M30	27/12/2017	03/01/2018	149.87 X 151.09 X 150.11	22644	8.166	548.0	24.2	23.7
2	M30 Concrete	M30	27/12/2017	03/01/2018	150.22 X 151.02 X 151.51	22567	8.146	525.8	23.3	
3	M30 Concrete	M30	27/12/2017	03/01/2018	150.28 X 150.77 X 150.21	22568	8.168	530.3	23.5	

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Certificate No : T- 8838

CP/TP/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP/2017-12-30/04 — Date: 24/01/2018

Customer : Assistant Executive Engineer, Project Sub division, BBMP, Bangalore.

Address : Project Sub division, BBMP, Bangalore.

Project Name : Improvements to CC roads and RCC drains in Mallasandra colony in Mallasandra Ward no.13

Agency : Technical Manager, KRIDL, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010.

Customer's Reference : BBMP/EE/PD/WO/05/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-12-17

Sample ID No : 2017-12-30/04/02

Customer ID : M30 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M30 Concrete	M30	27/12/2017	24/01/2018	150.44 X 151.34 X 148.87	22768	8.150	737.7	32.4	32.1
2	M30 Concrete	M30	27/12/2017	24/01/2018	150.21 X 151.29 X 150.73	22725	8.218	731.8	32.3	
3	M30 Concrete	M30	27/12/2017	24/01/2018	149.77 X 150.35 X 148.89	22518	8.299	711.6	31.6	

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CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-12-28-04 **Date: 02/01/2018**

Customer : Assistant Executive Engineer, Project Sub division, BBMP, Bangalore.

Address : Project Sub division, BBMP, Bangalore.

Project Name : Improvements to CC roads and RCC drains in Mallasandra colony in Mallasandra Ward no.13

Agency : Technical Manager, KRIDL, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010.

Customer's Reference : BBMP/EE/PD/WO/05/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-12-17

Sample ID No : 2017-12-28-04/03

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	26/12/2017	02/01/2018	150.16 X 150.32 X 150.38	22572	8.194	392.8	17.4	17.4
2	Drain Concrete	M20	26/12/2017	02/01/2018	150.72 X 150.84 X 150.49	22735	8.218	393.3	17.3	
3	Drain Concrete	M20	26/12/2017	02/01/2018	150.18 X 150.25 X 149.64	22565	8.273	394.9	17.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-12-28-04** **Date: 23/01/2018**

Customer : Assistant Executive Engineer, Project Sub division, BBMP, Bangalore.

Address : Project Sub division, BBMP, Bangalore.

Project Name : Improvements to CC roads and RCC drains in Mallasandra colony in Mallasandra Ward no.13

Agency : Technical Manager, KRIDL, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010.

Customer's Reference : BBMP/EE/PD/WO/05/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-12-17

Sample ID No : 2017-12-28-04/04

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	26/12/2017	23/01/2018	150.19 X 151.27 X 149.71	22719	8.193	504.4	22.2	
2	Drain Concrete	M20	26/12/2017	23/01/2018	149.91 X 150.43 X 150.67	22551	8.238	475.8	21.1	21.7
3	Drain Concrete	M20	26/12/2017	23/01/2018	150.14 X 150.72 X 151.28	22629	8.235	493.3	21.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-12-28-04 **Date: 02/01/2018**

Customer : Assistant Executive Engineer, Project Sub division, BBMP, Bangalore.

Address : Project Sub division, BBMP, Bangalore.

Project Name : Improvements to CC roads and RCC drains in Mallasandra colony in Mallasandra Ward no.13

Agency : Technical Manager, KRIDL, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010.

Customer's Reference : BBMP/EE/PD/WO/05/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-12-17

Sample ID No : 2017-12-28-04/01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	26/12/2017	02/01/2018	150.43 X 150.95 X 149.92	22707	8.244	379.2	16.7	17.1
2	Drain Concrete	M20	26/12/2017	02/01/2018	151.19 X 151.42 X 150.74	22893	8.185	398.3	17.4	
3	Drain Concrete	M20	26/12/2017	02/01/2018	150.81 X 151.26 X 150.71	22812	8.238	394.6	17.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-12-28-04

Date: 23/01/2018

Customer : Assistant Executive Engineer, Project Sub division, BBMP, Bangalore.

Address : Project Sub division, BBMP, Bangalore.

Project Name : Improvements to CC roads and RCC drains in Mallasandra colony in Mallasandra Ward no.13

Agency : Technical Manager, KRIDL, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010.

Customer's Reference : BBMP/EE/PD/WO/05/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-12-17

Sample ID No : 2017-12-28-04/02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	26/12/2017	23/01/2018	149.77 X 149.92 X 150.26	22454	8.274	518.7	23.1	22.3
2	Drain Concrete	M20	26/12/2017	23/01/2018	150.18 X 148.19 X 150.26	22255	8.271	498.5	22.4	
3	Drain Concrete	M20	26/12/2017	23/01/2018	151.23 X 149.29 X 150.91	22577	8.196	483.2	21.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 01/01/2018

Lab ID	:	**CP-2017-12-28-04**
Customer	:	Assistant Executive Engineer, Project Sub division, BBMP, Bangalore.
Address	:	Project Sub division, BBMP, Bangalore.
Project Name	:	Improvements to CC roads and RCC drains in Mallasandra colony in Mallasandra Ward no.13
Agency	:	Technical Manager, KRIDL, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010.
Customer's Reference	:	BBMP/EE/PD/WO/05/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-12-17
Sample ID No	:	2017-12-28-04/05
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	25/12/2017	01/01/2018	149.72 X 150.88 X 151.14	22590	8.220	388.5	17.2	
2	Drain Concrete	M20	25/12/2017	01/01/2018	150.26 X 151.19 X 150.34	22718	8.148	402.1	17.7	17.4
3	Drain Concrete	M20	25/12/2017	01/01/2018	149.16 X 151.21 X 150.19	22554	8.139	392.4	17.4	

Note:

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Certificate No.: T- 5548

CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-12-28-04** **Date: 22/01/2018**
Customer	:	Assistant Executive Engineer, Project Sub division, BBMP, Bangalore.
Address	:	Project Sub division, BBMP, Bangalore.
Project Name	:	Improvements to CC roads and RCC drains in Mallasandra colony in Mallasandra Ward no.13
Agency	:	Technical Manager, KRIDL, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010.
Customer's Reference	:	BBMP/EE/PD/WO/05/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-12-17
Sample ID No	:	2017-12-28-04/06
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	25/12/2017	22/01/2018	150.15 X 151.72 X 151.88	22781	8.267	498.9	21.9	22.1
2	Drain Concrete	M20	25/12/2017	22/01/2018	150.82 X 150.53 X 151.28	22703	8.264	501.7	22.1	
3	Drain Concrete	M20	25/12/2017	22/01/2018	150.62 X 149.48 X 150.19	22515	8.258	502.1	22.3	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Asst. Executive Engineer
Project Sub Division-I
Dasarahalli Zone,
Bruhat Bengaluru Mahanagara Palike

****End of Report****

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